

forming scale factors corresponding to the relative strengths of the plurality of traffic channels and the plurality of pilot channels;

estimating channel responses using the scaled pilot despread values to produce channel coefficient estimates;

combining the traffic despread values to obtain detection statistics that correspond to information symbols, using the channel coefficient estimates; and

scaling the pilot despread values by the scale factors to form scaled pilot despread values, and such that the step of combining obtains detection statistics that correspond to the relative strengths of the plurality of traffic channels and the plurality of pilot channels.

Please cancel Claim 2.

Please enter amended Claim 12 as follows:

12. (Twice Amended) A system for processing spread spectrum signals from a plurality of traffic channels and a plurality of pilot channels, the system comprising:

means for receiving data samples from the plurality of traffic channels and the plurality of pilot channels;

means for correlating the received data samples to spreading codes to produce pilot despread values and traffic despread values;

means for forming scale factors corresponding to the relative strengths of the plurality of traffic channels and the plurality of pilot channels;

means for estimating channel responses using the scaled pilot despread values to produce channel coefficient estimates;

means for combining the traffic despread values to obtain detection statistics that correspond to information symbols, using the channel coefficient estimates; and

means for scaling pilot despread values by the scale factors to form scaled pilot despread values, and such that the means for combining obtains detection statistics that correspond to the relative strengths of the plurality of traffic channels and the plurality of pilot channels.

Please cancel Claim 13.

Please enter amended Claim 16 as follows:

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16. (Twice Amended) A system for processing spread spectrum signals from a plurality of traffic channels and a plurality of pilot channels, the system comprising:

- means for receiving data samples from the plurality of traffic channels and the plurality of pilot channels;
- means for correlating the received data samples to spreading codes to produce pilot despread values and traffic despread values;
- means for forming scale factors corresponding to the relative strengths of the plurality of traffic channels and the plurality of pilot channels;
- means for estimating channel responses using the scaled pilot despread values to produce channel coefficient estimates;
- means for combining the traffic despread values to obtain detection statistics that correspond to information symbols, using the channel coefficient estimates; and
- means for scaling the pilot despread values by the scale factors to form scaled pilot despread values, and such that the means for combining obtains detection statistics that correspond to the relative strengths of the plurality of traffic channels and the plurality of pilot channels;

wherein the means for forming scale factors comprises:

- means for estimating power on a pilot channel;
- means for estimating power on a traffic channel; and
- means for determining scale factors based upon the estimated powers on the pilot channel and the traffic channel.

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Please enter amended Claim 23 as follows:

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23. (Twice Amended) A system for processing spread spectrum signals from a plurality of traffic channels and a plurality of pilot channels, the system comprising:

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a receiver that receives data samples from the plurality of traffic channels and the plurality of pilot channels;

a correlator that correlates the received data samples to spreading codes to produce pilot despread values and traffic despread values;

a scale factor estimator that estimates scale factors corresponding to the relative strengths of the plurality of traffic channels and the plurality of pilot channels;

a channel coefficient estimator that estimates channel responses using the scaled pilot despread values to produce channel coefficient estimates;

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a combiner that combines the traffic despread values to obtain detection statistics that correspond to information symbols, using the channel coefficient estimates; and

a scaler that scales the pilot despread values by the scale factors to form scaled pilot despread values, and such that the combiner obtains detection statistics that correspond to the relative strengths of the plurality of traffic channels and the plurality of pilot channels.

Please cancel Claim 24.